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10/593,987	10/11/2006	Jouni Korhonen	5420-10PUS	3403	
	OHEN, PONTANI, LIEBERMAN & PAVANE LLP		EXAM	EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/593,987	7/593,987 KORHONEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	TITO PHAM	2466	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	with the correspondence add	dress
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO the, cause the application to become A	ICATION. a reply be timely filed ONTHS from the mailing date of this col ABANDONED (35 U.S.C. § 133).	
Status			
 1) ☐ Responsive to communication(s) filed on <u>03</u> 2a) ☐ This action is FINAL. 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under 	is action is non-final. ance except for formal ma	•	merits is
Disposition of Claims			
4) ☐ Claim(s) 12-21 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subject.	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examir 11.	ccepted or b) objected to e drawing(s) be held in abeya ection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority documents. Copies of the certified copies of the priority documents. See the attached detailed Office action for a list	nts have been received. nts have been received in iority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National S	Stage
Attachment(s) 1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	o(s)/Mail Date Informal Patent Application	

Application/Control Number: 10/593,987 Page 2

Art Unit: 2466

DETAILED ACTION

Response to Amendment

This communication is in response to amendment filed on December 3, 2010.
 Claims 12-21 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chin et al. (US Pat. No. 7,277,453) in view of Huitema (US Pat. No. 6,016,512) in view of Kim (US Pub. No. 2004/0218611).

Regarding **claims 12 and 15**, Chin discloses a method for determining a required access point for data transmission between a first operator network and at least a second operator network, the first operator network comprising a first name server and the second operator network comprising a second name server and the required access point for receiving communication from at least the first operator network (figures 2 and 4, (col. 12 lines 62-67 to col. 13 lines 1-54), the method comprising:

sending a query for a network address of a node in the second operator network, the query being directed to the first name server (col. 13 lines 12-15);

transmitting the query from the first name server to the second name server of the second operator network (col. 13 lines 16-24), the second name server comprising network addresses of node of the second operator network (col. 12 lines 63-65);

determining the network address of the required node in the second name server (col. 13 lines 25-33);

after receiving the network address of the required access point from the second name server (col. 13 lines 33-35), transmitting, by the first name server, a query response including only the network address of the required node to a control element of the first operator network (col. 13 lines 33-37); and

setting up a connection from the control element of the first operator network to the required access point of the second network on the basis of the network address of the required access point in the query response (col. 13 lines 62-67), the required access point of the second network routing messages originated from the first operator network to an intended network address in the second network (col. 13 lines 55-67).

Chin further teaches DNS server A communicates with DNS server B through DNS-ALG GW A (network A) and DNS-ALG GW B (network B) (col. 13 lines 16-24). Chin does not explicitly teach a DNS server directly transmits a query to another DNS server. However, Huitema discloses a local server relays a DNS request to a root server and/or a remote server after determining that the local server does not have a requested address (figure 1; col. 1 lines 39-55). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to implement in Chin a

Art Unit: 2466

step of DNS server relays a request to another DNS server. The motivation is to obtain a correct answer/response from an appropriate server.

Chin further teaches the DNS response includes the gateway address (col. 10 lines 54-62; the IPv6 is the gateway address, the IPv4 is the private node address).

Chin does not teach in response to detecting a connection setup message from the first operator network to the second operator network, generating a DNS request, and return the gateway address. However, Kim discloses in response to detecting a connection setup message from the first operator network to the second operator network, generating a DNS request, and returns the gateway address (paragraph 158). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to implement in Chin in response to detecting a connection setup message from the first operator network to the second operator network, generating a DNS request, and return the gateway address. The motivation is to obtain a public destination address (gateway address) for communication between two private address nodes.

Regarding **claims 13 and 16**, all limitations in claims 12 and 15 are disclosed above. Chin further teaches wherein the second name server is a domain name server comprising, in a centralized manner, the network addresses of other network elements of the second operator network (figure 4; col. 13 lines 25-33; col. 12 lines 62-65)

Regarding **claim 14**, all limitations in claim 12 are disclosed above. Chin further teaches maintaining, in said first name server, network address data of at least one

second name server for each operator network, with which the first operator network is communicating (col. 13 lines 16-24).

4. Claim 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chin et al. (US Pat. No. 7,277,453) in view of Huitema (US Pat. No. 6,016,512) in view of Kim (US Pub. No. 2004/0218611) in view of Callas et al. (US Pub. No. 2004/0133775).

Regarding **claim 17**, all limitations in claim 15 are disclosed above. Chin does not teach said second name server is an LDAP database. However, Callas discloses an e-mail server contains an LDAP server (paragraph 83). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to implement in Chin an LDAP database. The motivation is to have an database containing user profiles.

5. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chin et al. (US Pat. No. 7,277,453) in view of Huitema (US Pat. No. 6,016,512) in view of Kim (US Pub. No. 2004/0218611) in view of Laurila (WO 2005/069,663).

Regarding **claim 18**, all limitations in claim 15 are disclosed above. Chin does not teach at least one of said first and second operator networks is an IMS data transmission network and an interfacing network between the first and the second operator network is a GRX network. However, Laurila discloses an IMS interfaces an GPRS network (figure 1 elements 11 and 12). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to substitute the private IP

network with an IMS network and a public IP network with a GPRS network to obtain a predictable result of network compatibility.

Regarding **claim 19**, Chin does not teach the required access point of said second network is an I-CSCF contact point. However, Laurila discloses the required access point of said second network is an I-CSCF contact point (figure 1). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to implement in Chin the required access point of said second network is an I-CSCF contact point. The motivation is to control call session.

6. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chin et al. (US Pat. No. 7,277,453) in view of Huitema (US Pat. No. 6,016,512) in view of Kim (US Pub. No. 2004/0218611).

Regarding **claim 20**, Chin discloses a name server storing names arranged in an operator network (figure 4), said name server comprising:

a private name server including a network address of a required access point of the operator network (col. 13 lines 25-33; col. 14 lines 28-42), the required access point being arranged to receive communication from another operator network comprising a control element implementing a call/session control function and managing the routing of messages originated from the another operator network to an intended network address in the operator network (figure 2 gateways A and B),

wherein said private name server being is arranged to receive a query from a name server of the another operator network regarding a network address of the required access point of the operator network (col. 13 lines 15-24; col. 14 lines 37-43);

said private name server is arranged to determine, on the basis of the query, the network address of the required access point (col. 13 lines 25-33); and

said private name server is arranged to return only the network address of the required access point to the name server of the another operator network for transmission to the control element of the another operator network (col. 13 lines 25-33; col. 14 lines 35-43).

Chin further teaches the DNS response includes the gateway address (col. 10 lines 54-62; the IPv6 is the gateway address, the IPv4 is the private node address).

Chin does not teach querying and returning the gateway address. However, Kim teaches receives a gateway address query and returns the gateway address (paragraph 158). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to implement in Chin in response to detecting a connection setup message from the first operator network to the second operator network, generating a DNS request, and return the gateway address. The motivation is to obtain a public destination address (gateway address) for communication between two private address nodes.

Chin further teaches DNS server A communicates with DNS server B through DNS-ALG GW A (network A) and DNS-ALG GW B (network B) (col. 13 lines 16-24).

Chin does not explicitly teach a DNS server directly transmits a query to another DNS server. However, Huitema discloses a local server relays a DNS request to a root server and/or a remote server after determining that the local server does not have a requested address (figure 1; col. 1 lines 39-55). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to implement in Chin a step of DNS server relays a request to another DNS server. The motivation is to obtain a correct answer/response from an appropriate server.

7. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chin et al. (US Pat. No. 7,277,453) in view of Huitema (US Pat. No. 6,016,512) in view of Kim (US Pub. No. 2004/0218611) in view of Callas et al. (US Pub. No. 2004/0133775).

Regarding **claim 21**, all limitations in claim 20 are disclosed above. Chin does not teach said second name server is an LDAP database. However, Callas discloses an e-mail server contains an LDAP server (paragraph 83). Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to implement in Chin an LDAP database. The motivation is to have an database containing user profiles.

Response to Arguments

8. Applicant's arguments filed December 3, 2010 have been fully considered but they are not persuasive.

In pages 7 and 8 of Remark, Applicant argues that Huitema fails to disclose a name server of one network transmitting a query to a name server of another network.

Application/Control Number: 10/593,987

Art Unit: 2466

In particular, Applicant argues that Huitema only teaches servers in a same network. Examiner respectfully disagrees. Chin already teaches indirect communication between servers of different networks via network gateways DNS-ALG GW A (network A) and DNS-ALG GW B (network B) (col. 13 lines 16-24). The only missing part is a direct communication between the two servers which Huitema discloses in figure 1 and col. 1 lines 39-55 (a server directly transmits a query to another server). Further, Huitema discloses the local server transmits a query to a remote server (figure 1 and col. 1 lines 39-55). The local and the remote server are interpreted as residing in different networks. Also figure cited by Examiner (Huitema's figure 1 Prior Art) and figure provided in Applicant's argument (Huitema's figure 3, invention) are not the same. The set up of figure 3 is not necessary the same as figure 1. In fact, figure 1's description (col. 1 lines 27-62) does not identify the two servers are connected in a single network.

Page 9

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 10/593,987 Page 10

Art Unit: 2466

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TITO PHAM whose telephone number is (571) 272-4122. The examiner can normally be reached on Monday-Friday 8AM-5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Ryman can be reached on 571-272-3152. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tito Pham/ Examiner, Art Unit 2466

/Daniel J. Ryman/
Supervisory Patent Examiner, Art Unit 2466